



HUMBOLDT

HM-5240 and HM-5250 Pressure Controllers



HM-5240.3F



HM-5250.3F

The HM-5240.3F and HM-5250.3F triaxial-specific pressure controllers are designed specifically for geotechnical laboratory triaxial testing, such as Unconsolidated Undrained, Consolidated Undrained and Consolidated Drained tests. Both pressure controllers provide control and monitoring of cell pressure, back pressure, pore water measurement and volume change when used with Humboldt's elite series load frames.

Both units provide four (4) integral and independent data acquisition channels, which can be utilized in a stand-alone configuration or accessed through a LAN-networked computer using Humboldt's Next software. The HM-5240.3F is a fully-automated pneumatic pressure controller, which is highly accurate up to 150psi (1000kpa) in pressure and 100cc (100ml) in volume. And, the HM-5250.3F is a fully-automated hydraulic pressure controller, which is highly accurate up to 500psi (3500kpa) in pressure and 200cc (200ml) in volume.

- Microprocessor based design with 4-channel high resolution 24bit analog to digital convertor data acquisition.
- Hi—resolution, 7" waterproof, touch-screen provides total control and real-time graphical display of tests.
- A complete cell pressure, back pressure, pore pressure and volume for a single Triaxial cell.
- Effective sampling rate of 50 readings per second
- Stores up to 1000 tests with 3000 points per test.
- 2 USB ports. One in front for data transfer and rear port is for powering a wireless access point.
- Computer interface via Ethernet connection or wireless access point.
- Ambient temperature sensor.
- Remote firmware update.
- Over Sample pressure range protection

HM-5240 and HM-5250 Pressure Controllers



HM-5240.3F

A small-footprint, triaxial-specific pressure controller that provides the versatility, precision and durability found throughout Humboldt's elite series.

The HM-5240.3F is a fully-automated pneumatic pressure controller, which is highly accurate up to 150psi (1000kpa) in pressure and 100cc (100ml) in volume. It is designed specifically for geotechnical laboratory triaxial testing (UU, CU and CD) and provides control and monitoring of cell pressure, back pressure, pore water measurement and volume change when used with our elite series load frames.

The HM-5240 provides four (4) integral and independent data acquisition channels, which can be utilized in stand-alone configuration or accessed through a LAN-networked computer using Humboldt's Next software. The unit is built with durable high-quality components and feature the use of two electronic regulators to ensure smooth and reliable operation of pressures, as well as precise results.

In stand-alone mode, this pressure controller provides a 7" (178mm) touch-screen controller. This new waterproof, touch screen provides colorful, at-a-glance monitoring of testing functions without the use of a computer. Operator could see all the data in several formats at the controller while the test is running. Then can be viewed simultaneously or downloaded later to a computer in the lab, in the next room or at a different location, while also providing report generation capabilities from within Humboldt's NEXT software or our enhanced test- specific modules.

Maximum Pressure:	150psi (1000kpa)
Volume Capacity:	100cc (100ml)
Voltage:	110-220V 50/60Hz - 5.0 amps
Net Weight:	38 lbs (17.5 kg)
Dimensions:	13" x 11.5" x 22" 330 x 292 x 559mm



HM-5250.3F

A small-footprint, triaxial-specific pressure controller that provides the versatility, precision and durability found throughout Humboldt's elite series.

The HM-5250.3F is a fully-automated hydraulic pressure controller, which is highly accurate up to 500psi (3500kpa) in pressure and 200cc (200ml) in volume. It is designed specifically for geotechnical laboratory triaxial testing (UU, CU and CD) and provides control and monitoring of cell pressure, back pressure, pore water measurement and volume change when used with our elite series load frames.

The HM-5250 provides four (4) integral and independent data acquisition channels, which can be utilized in stand-alone configuration or accessed through a LAN-networked computer using Humboldt's Next software. The unit is built with durable, high-quality components and features the use of stepper motors and precision gears to ensure smooth and reliable operation of pressures, as well as precise results.

In stand-alone mode, this pressure controller provides a 7" (178mm) touch-screen controller. This new waterproof, touch screen provides colorful, at-a-glance monitoring of testing functions without the use of a computer. Operator could see all the data in several formats at the controller while the test is running. Then can be viewed simultaneously or downloaded later to a computer in the lab, in the next room or at a different location, while also providing report generation capabilities from within Humboldt's NEXT software or our enhanced test- specific modules.

Maximum Pressure:	500psi (3500kpa)
Volume Capacity:	200cc (200ml)
Voltage:	110-220V 50/60Hz - 8.0 amps
Net Weight:	72 lbs (32.7 kg)
Dimensions:	13" x 11.5" x 22" 330 x 292 x 559mm